

Amendments to the claims:

1. (Canceled)

2. (Currently Amended) A microelectromechanical (MEMS) structure on a substrate, the

5 MEMS structure comprising:

an actuator body connected with a suspension system; and

the suspension system connected with the substrate, the suspension system comprising:

a set of one or more flexures, each flexure connecting the actuator body with the substrate; and

10 a set of one or more torsional elements, wherein each torsional element connects a corresponding flexure with the actuator body and provides strain relief between the corresponding flexure and the actuator body, each torsional element having a length comprising the distance from the corresponding flexure to the actuator body, the length being greater than the width of the torsional element, wherein the width of the torsional
15 element is less than the width of the corresponding flexure.

3. (Previously Presented) The MEMS structure of claim 2, wherein each torsional element relieves angular strain caused by a difference between the angle of the corresponding flexure and the angle of the actuator body.

20 4. (Previously Presented) The MEMS structure of claim 2, wherein each torsional element has an angle of twist per unit moment (θ/Nm) of $7.00E+06$ or greater.

5. (Currently Amended) The MEMS structure of claim 2, wherein each torsional element
25 has a length ~~dimension~~ that extends from the corresponding flexure to the actuator body, the length ~~dimension~~ having a value equal to or greater than $5\mu m$ and equal to or less than $20\mu m$.

6. (Currently Amended) The MEMS structure of claim 2, wherein each torsional element
30 has a width ~~dimension~~ that extends perpendicular to the its length ~~dimension~~ and substantially parallel to the substrate, the width ~~dimension~~ having a value equal to or greater than $2\mu m$ and less than $10\mu m$.

7. (Previously Presented) The MEMS structure of claim 2, wherein a torsional element comprises a torsional attachment or a torsional spring.
- 5 8. (Previously Presented) The MEMS structure of claim 7, wherein a torsional element is shaped in a serpentine form.
9. (Previously Presented) The MEMS structure of claim 2, wherein:
the suspension system further comprises a set of one or more anchor points, wherein each
10 anchor point connects a corresponding flexure to the substrate and has an angle of twist per unit moment value substantially equal to a first value; and
each torsional element has an angle of twist per unit moment value substantially equal to
a second value, wherein the second value is greater than the first value.
- 15 10. (Previously Presented) The MEMS structure of claim 2, wherein the actuator body is a platform, actuator segment, or mirror segment.
11. (New) The MEMS structure of claim 2, wherein each torsional element extends from the
corresponding flexure to the actuator body in a direction that is substantially perpendicular to the
20 corresponding flexure.
12. (New) The MEMS structure of claim 2, wherein the suspension system is configured to
elevate the entirety of the actuator body above the substrate.
- 25 13. (New) The MEMS structure of claim 9, wherein each torsional element has a width that is
less than the width of the corresponding flexure at the anchor point.